

WHAT IS CLAIMED IS:

1. A method for detecting anomalous behavior in an executing software program, said method comprising the steps of:

- generating a normal execution trace for the software program;
- applying a learning algorithm to the normal execution trace to build a finite automaton;
- applying an examination algorithm to the finite automaton to identify undesirable transition states in the finite automaton and to create a labeled finite automaton; and
- applying the labeled finite automaton to an execution trace associated with the executing software program.

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